

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A method of converting a progenitor neural stem cell ~~of a V2 interneuron~~ into a V2 interneuron which comprises introducing into the progenitor neural stem cell, ex vivo, a nucleic acid which encodes homeodomain transcription factor Nkx6.1 protein, wherein the encoded protein is expressed in the progenitor neural stem cell so as to thereby convert the progenitor neural stem cell into the V2 interneuron.
2. (currently amended) The method of claim 1, wherein the nucleic acid introduced into the progenitor neural stem cell integrates into the chromosomal DNA of the progenitor cell.
3. (original) The method of claim 1, wherein the nucleic acid is introduced by transfection or transduction.
4. - 12. (canceled)